



OIPE

RAW SEQUENCE LISTING

DATE: 01/23/2002

PATENT APPLICATION: US/09/754,014

TIME: 14:37:02

Input Set : N:\Crf3\RULE60\09754014.raw Output Set: N:\CRF3\01232002\I754014.raw

SEQUENCE LISTING

3 (1) GENERAL INFORMATION:

```
(i) APPLICANT: Jeff Nordstrom
      7
                            Bruce Freimark
                            Deepa Deshpande
      8
            (ii) TITLE OF INVENTION: GENE EXPRESSION AND DELIVERY SYTEMS
     11
                                      AND USES
     12
           (iii) NUMBER OF SEQUENCES: 12
     15
            (iv) CORRESPONDENCE ADDRESS:
     18
     20
                  (A) ADDRESSEE: Lyon & Lyon
                  (B) STREET: 633 West Fifth Street
     21
                                                           ENTERED
     22
                               Suite 4700
                  (C) CITY: Los Angeles
     23
                  (D) STATE: California
     24
                  (E) COUNTRY: U.S.A.
     25
                  (F) ZIP: 90071-2066
     26
     29
             (V) COMPUTER READABLE FORM:
                  (A) MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
     31
     32
                                    storage
                  (B) COMPUTER: IBM Compatible
     33
                  (C) OPERATING SYSTEM: IBM P.C. DOS 5.0
     34
     35
                  (D) SOFTWARE: FastSEQ for Windows 2.0
     38
            (vi) CURRENT APPLICATION DATA:
                  (A) APPLICATION NUMBER: US/09/754,014
C-->40
                  (B) FILING DATE: 03-Jan-2001
C-->41
                  (C) CLASSIFICATION:
     42
           (vii) PRIOR APPLICATION DATA:
     45
                  (A) APPLICATION NUMBER: 08/948,958
     47
     48
                  (B) FILING DATE:
     51
          (viii) ATTORNEY/AGENT INFORMATION:
                  (A) NAME: Berkman, Charles S.
     53
                  (B) REGISTRATION NUMBER: 38,077
     54
     55
                  (C) REFERENCE/DOCKET NUMBER: 226/284
     57
            (ix) TELECOMMUNICATION INFORMATION:
                  (A) TELEPHONE: (213) 489-1600
     59
                  (B) TELEFAX: (213) 955-0440
     60
                  (C) TELEX: 67-3510
     61
     69 (2) INFORMATION FOR SEQ ID NO: 1:
             (i) SEQUENCE CHARACTERISTICS:
     71
     73
                  (A) LENGTH: 328 amino acids
     74
                  (B) TYPE: amino acid
     75
                  (C) STRANDEDNESS: single
     76
                  (D) TOPOLOGY: linear
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78 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1: 80 Met Cys His Gln Gln Leu Val Ile Ser Trp Phe Ser Leu Val Phe Leu 81 1 5 10 15 83 Ala Ser Pro Leu Val Ala Ile Trp Glu Leu Lys Lys Asp Val Tyr Val 20 25 30 84 20 25 30 30 86 Val Glu Leu Asp Trp Tyr Pro Asp Ala Pro Gly Glu Met Val Val Leu 45 40 45 89 Thr Cys Asp Thr Pro Glu Glu Asp Gly Ile Thr Trp Thr Leu Asp Gln 50 60 60 92 Ser Ser Glu Val Leu Gly Ser Gly Lys Thr Leu Thr Ile Gln Val Lys 65 70 75 80 95 Glu Phe Gly Asp Ala Gly Gln Tyr Thr Cys His Lys Gly Gly Glu Val 85 90 95 98 Leu Ser His Ser Leu Leu Leu Leu His Lys Lys Glu Asp Gly Ile Trp 100 105 110 101 Ser Thr Asp Ile Leu Lys Asp Gln Lys Glu Pro Lys Asn Lys Thr Phe 120 125 104 Leu Arg Cys Glu Ala Lys Asn Tyr Ser Gly Arg Phe Thr Cys Trp Trp 130 125 104 Leu Arg Cys Glu Ala Lys Asn Tyr Ser Gly Arg Phe Thr Cys Trp Trp 155 160
1
83
84
Name California Californi
87
89 Thr Cys Asp Thr Pro Glu Glu Asp Gly I le Thr Trp Thr Leu Asp Gln 90
90
92 Ser Ser Glu Val Leu Gly Ser Gly Lys Thr Leu Thr Ile Gln Val Lys 93 65 70 70 75 80 95 Glu Phe Gly Asp Ala Gly Gln Tyr Thr Cys His Lys Gly Gly Glu Val 96 85 85 90 95 98 Leu Ser His Ser Leu Leu Leu Leu His Lys Glu Asp Gly Ile Trp 99 100 101 Ser Thr Asp Ile Leu Lys Asp Gln Lys Glu Pro Lys Asn Lys Thr Phe 102 115 120 125 104 Leu Arg Cys Glu Ala Lys Asn Tyr Ser Gly Arg Phe Thr Cys Trp Trp 105 130 130 1315 130 130 130 130 130 130 130 130 130 130
93 65 70 75 80 95 Glu Phe Gly Asp Ala Gly Gln Tyr Thr Cys His Lys Gly Gly Glu Val 96 85 90 95 98 Leu Ser His Ser Leu Leu Leu Leu His Lys Lys Glu Asp Gly Ile Trp 99 100 105 105 110 101 Ser Thr Asp Ile Leu Lys Asp Gln Lys Glu Pro Lys Asn Lys Thr Phe 102 115 120 125 104 Leu Arg Cys Glu Ala Lys Asn Tyr Ser Gly Arg Phe Thr Cys Trp Trp 105 130 135 135 140 107 Leu Thr Thr Ile Ser Thr Asp Leu Thr Phe Ser Val Lys Ser Ser Arg 108 145 150 150 155 160 110 Gly Ser Ser Asp Pro Gln Gly Val Thr Cys Gly Ala Ala Thr Leu Ser 111 165 170 170 175 113 Ala Glu Arg Val Arg Gly Asp Asn Lys Glu Tyr Glu Tyr Ser Val Glu 114 180 180 185 185 190 116 Cys Gln Glu Asp Ser Ala Cys Pro Ala Ala Glu Glu Ser Leu Pro Ile 117 195 200 205 177 Thr 120 Glu Val Met Val Asp Ala Val His Lys Leu Lys Tyr Glu Asn Tyr Thr 120 210 215 220
Ser Ser
96
100 105 110
99
101 Ser Thr Asp Ile Leu Lys Asp Gln Lys Glu Pro Lys Asn Lys Thr Phe 102
102 115 120 125 125 177 177 177 188 188 1
104 Leu Arg Cys Glu Ala Lys Asn Tyr Ser Gly Arg Phe Thr Cys Trp Trp 105
105
105
107 Leu Thr Thr Ile Ser Thr Asp Leu Thr Phe Ser Val Lys Ser Asp Arg 150 Lys Thr Phe Ser Val Lys 155 Lys Ser Asp Arg Ala Thr Lys Gly Ala A
108 145 57 58 150 58 155 58 160 110 111 112 112 112 112 112 112 112 113 114 </td
110 Gly Ser Ser Asp Pro Gln Gly Val Thr Cys Gly Ala Ala Thr Leu Ser 111
111
113 Ala Glu Arg Val Arg Gly Asp Asn Lys Glu Tyr Glu Tyr Ser Val Glu 114 180 180 185 190 116 Cys Gln Glu Asp Ser Ala Cys Pro Ala Ala Glu Glu Ser Leu Pro Ile 117 195 200 205 119 Glu Val Met Val Asp Ala Val His Lys Leu Lys Tyr Glu Asn Tyr Thr 120 210 225 226
114 Cys Gln Glu Asp Ser Ala Cys Pro Ala Ala Glu Glu Ser Leu Pro Ile 117 195
116 Cys Gln Glu Asp Ser Ala Cys Pro Ala Ala Glu Glu Ser Leu Pro Ile 117 200 205 119 Glu Val Met Val Asp Ala Val His Lys Leu Lys Tyr Glu Asn Tyr Thr 120 210 215 220
117
119 Glu Val Met Val Asp Ala Val His Lys Leu Lys Tyr Glu Asn Tyr Thr 120 210 215 220
120 210 215 220
122 Ser Ser Phe Phe 11e Arg Asp 11e 11e Lys Pro Asp Pro Pro Lys Ash
125 Leu Gln Leu Lys Pro Leu Lys Asn Ser Arg Gln Val Glu Val Ser Trp
126 245 250 255
128 Glu Tyr Pro Asp Thr Trp Ser Thr Pro His Ser Tyr Phe Ser Leu Thr
129 260 265 270
131 Phe Cys Val Gln Val Gln Gly Lys Ser Lys Arg Glu Lys Lys Asp Arg
132 275 280 285
134 Val Phe Thr Asp Lys Thr Ser Ala Thr Val Ile Cys Arg Lys Asn Ala
135 290 295 300
137 Ser Ile Ser Val Arg Ala Gln Asp Arg Tyr Tyr Ser Ser Ser Trp Ser
138 305 310 315 320
141 Glu Trp Ala Ser Val Pro Cys Ser
142 325
146 (2) INFORMATION FOR SEQ ID NO: 2:
148 (i) SEQUENCE CHARACTERISTICS:
150 (A) LENGTH: 987 base pairs
151 (B) TYPE: nucleic acid
152 (C) STRANDEDNESS: single
153 (D) TOPOLOGY: linear

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:
155
     ATGTGTCACC AGCAGTTGGT CATCTCTTGG TTTTCCCTGG TTTTTCTGGC ATCTCCCCTC
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157
     GTGGCCATAT GGGAACTGAA GAAAGATGTT TATGTCGTAG AATTGGATTG GTATCCGGAT
                                                                          120
158
     GCCCCTGGAG AAATGGTGGT CCTCACCTGT GACACCCCTG AAGAAGATGG TATCACCTGG
                                                                          180
159
     ACCTTGGACC AGAGCAGTGA GGTCTTAGGC TCTGGCAAAA CCCTGACCAT CCAAGTCAAA
                                                                          240
160
     GAGTTTGGAG ATGCTGGCCA GTACACCTGT CACAAAGGAG GCGAGGTTCT AAGCCATTCG
                                                                          300
161
     CTCCTGCTGC TTCACAAAAA GGAAGATGGA ATTTGGTCCA CTGATATTTT AAAGGACCAG
                                                                          360
162
     AAAGAACCCA AAAATAAGAC CTTTCTAAGA TGCGAGGCCA AGAATTATTC TGGACGTTTC
                                                                          420
163
     ACCTGCTGGT GGCTGACGAC AATCAGTACT GATTTGACAT TCAGTGTCAA AAGCAGCAGA
                                                                          480
165
     GGCTCTTCTG ACCCCAAGG GGTGACGTGC GGAGCTGCTA CACTCTCTGC AGAGAGAGTC
                                                                          540
     AGAGGGGACA ACAAGGAGTA TGAGTACTCA GTGGAGTGCC AGGAGGACAG TGCCTGCCCA
                                                                          600
166
     GCTGCTGAGG AGAGTCTGCC CATTGAGGTC ATGGTGGATG CCGTTCACAA GCTCAAGTAT
                                                                          660
167
     GAAAACTACA CCAGCAGCTT CTTCATCAGG GACATCATCA AACCTGACCC ACCCAAGAAC
                                                                          720
168
     TTGCAGCTGA AGCCATTAAA GAATTCTCGG CAGGTGGAGG TCAGCTGGGA GTACCCTGAC
                                                                          780
169
     ACCTGGAGTA CTCCACATTC CTACTTCTCC CTGACATTCT GCGTTCAGGT CCAGGGCAAG
                                                                          840
170
                                                                          900
     AGCAAGAGA AAAAGAAAGA TAGAGTCTTC ACGGACAAGA CCTCAGCCAC GGTCATCTGC
171
172
     CGCAAAAATG CCAGCATTAG CGTGCGGGCC CAGGACCGCT ACTATAGCTC ATCTTGGAGC
                                                                          960
                                                                          987
173
     GAATGGGCAT CTGTGCCCTG CAGTTAG
177 (2) INFORMATION FOR SEQ ID NO: 3:
179
         (i) SEQUENCE CHARACTERISTICS:
181
              (A) LENGTH: 987 base pairs
182
              (B) TYPE: nucleic acid
183
              (C) STRANDEDNESS: single
184
              (D) TOPOLOGY: linear
186
        (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:
188
     ATGTGCCACC AGCAGCTGGT GATCAGCTGG TTCAGCCTGG TGTTCCTGGC CAGCCCCCTG
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189
     GTGGCCATCT GGGAGCTGAA GAAGGACGTG TACGTGGTGG AGCTGGACTG GTACCCCGAC
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190
     GCCCCGGCG AGATGGTGGT GCTGACCTGC GACACCCCCG AGGAGGACGG CATCACCTGG
                                                                          180
191
     ACCCTGGACC AGAGCAGCGA GGTGCTGGGC AGCGGCAAGA CCCTGACCAT CCAGGTGAAG
                                                                          240
     GAGTTCGGCG ACGCCGGCCA GTACACCTGC CACAAGGGCG GCGAGGTGCT GAGCCACAGC
192
                                                                          300
193
     CTGCTGCTGC TGCACAAGAA GGAGGACGGC ATCTGGAGCA CCGACATCCT GAAGGACCAG
                                                                          360
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194
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                                                                          480
     GGCAGCAGCG ACCCCCAGGG CGTGACCTGC GGCGCCGCCA CCCTGAGCGC CGAGCGCGTG
                                                                          540
197
     CGCGGCGACA ACAAGGAGTA CGAGTACAGC GTGGAGTGCC AGGAGGACAG CGCCTGCCCC
                                                                          600
198
     GCCGCCGAGG AGAGCCTGCC CATCGAGGTG ATGGTGGACG CCGTCCACAA GCTGAAGTAC
                                                                          660
     GAGAACTACA CCAGCAGCTT CTTCATCCGC GACATCATCA AGCCCGACCC CCCCAAGAAC
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199
     CTGCAGCTGA AGCCCCTGAA GAACAGCCGC CAGGTGGAGG TGAGCTGGGA GTACCCCGAC
                                                                          780
200
     ACCTGGAGCA CCCCCCACAG CTACTTCAGC CTGACCTTCT GCGTGCAGGT GCAGGGCAAG
                                                                          840
201
     AGCAAGCGCG AGAAGAAGGA CCGCGTGTTC ACCGACAAGA CCAGCGCCAC CGTGATCTGC
                                                                          900
202
     CGCAAGAACG CCAGCATCAG CGTGCGCGCC CAGGACCGCT ACTACAGCAG CAGCTGGAGC
                                                                          960
203
                                                                          987
204
     GAGTGGGCCA GCGTGCCCTG CAGCTAG
206 (2) INFORMATION FOR SEQ ID NO: 4:
         (i) SEQUENCE CHARACTERISTICS:
208
              (A) LENGTH: 987 base pairs
210
211
              (B) TYPE: nucleic acid
              (C) STRANDEDNESS: single
212
213
              (D) TOPOLOGY: linear
        (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:
215
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217
    GTGGCCATCT GGGAGCTGAA GAAAGACGTG TACGTGGTCG AGCTGGACTG GTACCCCGAC
                                                                         120
218
     GCCCCGGCG AGATGGTGGT CCTGACCTGC GACACCCCCG AGGAAGACGG CATCACCTGG
                                                                         180
219
    ACCCTGGACC AGAGCAGTGA GGTGCTGGGC TCCGGCAAGA CCCTGACCAT CCAGGTGAAG
                                                                         240
220
     GAGTTCGGCG ACGCCGGCCA GTACACCTGC CACAAGGGAG GCGAGGTGCT GAGCCACTCC
                                                                         300
221
     CTCCTGCTGC TCCACAAAAA GGAGGACGGC ATCTGGAGCA CCGACATCCT GAAGGACCAG
222
                                                                         360
     AAGGAGCCCA AGAACAAGAC CTTCCTGCGC TGCGAGGCCA AGAACTACAG CGGCCGCTTC
223
                                                                         420
     480
     GGCTCCAGCG ACCCCAGGG CGTGACCTGC GGCGCTGCCA CCCTGAGCGC CGAGCGCGTG
                                                                         540
226
     CGCGGCGACA ACAAGGAGTA CGAGTACAGC GTGGAGTGCC AGGAAGACTC CGCCTGCCCC
                                                                         600
227
    GCCGCTGAGG AGAGCCTGCC CATCGAGGTG ATGGTGGACG CCGTTCACAA GCTGAAGTAC
                                                                         660
    GAGAACTACA CCAGCAGCTT CTTCATCCGC GACATCATCA AGCCTGACCC ACCCAAGAAC
                                                                         720
228
     CTCCAGCTGA AGCCCCTCAA GAACTCCCGC CAGGTGGAGG TGAGCTGGGA GTACCCCGAC
                                                                         780
229
    ACCTGGAGCA CGCCCCACTC CTACTTCTCC CTGACCTTCT GCGTGCAGGT CCAGGGCAAG
230
                                                                         840
    AGCAAGCGCG AGAAGAAAGA CCGGGTGTTC ACCGACAAGA CCAGCGCCAC CGTCATCTGC
                                                                         900
231
    CGCAAGAACG CCAGCATCAG CGTGCGCGCC CAGGACCGCT ACTATAGCTC CTCTTGGAGC
                                                                         960
232
    GAGTGGGCCA GCGTGCCCTG CTCCTAG
                                                                         987
233
237 (2) INFORMATION FOR SEQ ID NO: 5:
239
        (i) SEQUENCE CHARACTERISTICS:
241
              (A) LENGTH: 219 amino acids
242
              (B) TYPE: amino acid
243
              (C) STRANDEDNESS: single
244
              (D) TOPOLOGY: linear
      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:
248
    Met Cys Pro Ala Arg Ser Leu Leu Val Ala Thr Leu Val Leu Leu
249
                     5
                                         10
251
    Asp His Leu Ser Leu Ala Arg Asn Leu Pro Val Ala Thr Pro Asp Pro
252
                                     25
254
    Gly Met Phe Pro Cys Leu His His Ser Gln Asn Leu Leu Arg Ala Val
255
                                 40
257
    Ser Asn Met Leu Gln Lys Ala Arg Gln Thr Leu Glu Phe Tyr Pro Cys
258
                             55
260
    Thr Ser Glu Glu Ile Asp His Glu Asp Ile Thr Lys Asp Lys Thr Ser
261
                        70
                                            75
263
    Thr Val Glu Ala Cys Leu Pro Leu Glu Leu Thr Lys Asn Glu Ser Cys
264
                                         90
                  85
266
    Leu Asn Ser Arg Glu Thr Ser Phe Ile Thr Asn Gly Ser Cys Leu Ala
267
                100
                                    105
269
    Ser Arg Lys Thr Ser Phe Met Met Ala Leu Cys Leu Ser Ser Ile Tyr
270
                                120
            115
    Glu Asp Leu Lys Met Tyr Gln Val Glu Phe Lys Thr Met Asn Ala Lys
272
273
                            135
    Leu Leu Met Asp Pro Lys Arg Gln Ile Phe Leu Asp Gln Asn Met Leu
274
275
                        150
                                            155
277
    Ala Val Ile Asp Glu Leu Met Gln Ala Leu Asn Phe Asn Ser Glu Thr
278
                    165
                                        170
    Val Pro Gln Lys Ser Ser Leu Glu Glu Pro Asp Phe Tyr Lys Thr Lys
280
281
                180
                                    185
    Ile Lys Leu Cys Ile Leu Leu His Ala Phe Arg Ile Arg Ala Val Thr
283
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RAW SEQUENCE LISTING

DATE: 01/23/2002 TIME: 14:37:02

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284	195 . 200	205		
286	Ile Asp Arg Val Thr Ser Tyr Leu Asn Ala Ser		•	
287	210 215			
	(2) INFORMATION FOR SEQ ID NO: 6:			•
293	(i) SEQUENCE CHARACTERISTICS:		,	
295	(A) LENGTH: 660 base pairs			
295	· ·			
297	(C) STRANDEDNESS: single			
298	(D) TOPOLOGY: linear			
300	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:			
302	ATGTGTCCAG CGCGCAGCCT CCTCCTTGTG GCTACCCTGG		ССАССТСАСТ	60
303	TTGGCCAGAA ACCTCCCCGT GGCCACTCCA GACCCAGGAA			120
304	TCCCAAAACC TGCTGAGGGC CGTCAGCAAC ATGCTCCAGA			180
305	TTTTACCCTT GCACTTCTGA AGAGATTGAT CATGAAGATA			240
305	ACAGTGGAGG CCTGTTTACC ATTGGAATTA ACCAAGAATG			300
307	GAGACCTCTT TCATAACTAA TGGGAGTTGC CTGGCCTCCA			360
308	GCCCTGTGCC TTAGTAGTAT TTATGAAGAC TTGAAGATGT			42.0
309	ATGAATGCAA AGCTTCTGAT GGATCCTAAG AGGCAGATCT			480
310	GCAGTTATTG ATGAGCTGAT GCAGGCCCTG AATTTCAACA			540
311	TCCTCCCTTG AAGAACCGGA TTTTTATAAA ACTAAAATCA			600
312	GCTTTCAGAA TTCGGGCAGT GACTATTGAC AGAGTGACGA			660
	(2) INFORMATION FOR SEQ ID NO: 7:	GCIAICIGAA	TOCTTCCTAA	000
318	(i) SEQUENCE CHARACTERISTICS:			
320	(A) LENGTH: 660 base pairs			
321	(B) TYPE: nucleic acid			
322	(C) STRANDEDNESS: single			
323	(D) TOPOLOGY: linear			
325	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:			
327	ATGTGCCCCG CCCGCAGCCT GCTGCTGGTG GCCACCCTGG		CCACCTGAGC	60
328	CTGGCCCGCA ACCTGCCCGT GGCCACCCCC GACCCCGGCA			120
329	AGCCAGAACC TGCTGGCGGC CGTGAGCAAC ATGCTGCAGA			180
330	TTCTACCCCT GCACCAGCGA GGAGATCGAC CACGAGGACA			240
331	ACCGTGGAGG CCTGCCTGCC CCTGGAGCTG ACCAAGAACG			300
332	GAGACCAGCT TCATCACCAA CGGCAGCTGC CTGGCCAGCC			360
333	GCCTGTGCC TGAGCAGCAT CTACGAGGAC CTGAAGATGT			420
334	ATGAACGCCA AGCTGCTGAT GGACCCCAAG CTCCAGATCT			480
335	GCCGTGATCG ACGAGCTGAT GCAGGCCCTG AACTTCAACA			540
336	AGCAGCCTGG AGGAGCCCGA CTTCTACAAG ACCAAGATCA			600
337	GCCTTCCGCA TCCGCGCCGT GACCATCGAC CGCGTGACCA			660
	(2) INFORMATION FOR SEQ ID NO: 8:	0011100101111		
344	(i) SEQUENCE CHARACTERISTICS:			
346	(A) LENGTH: 660 base pairs			
347	(B) TYPE: nucleic acid			
348	(C) STRANDEDNESS: single			
349	(D) TOPOLOGY: linear			
351	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:			
353	ATGTGCCCG CCCGCAGCCT GCTGCTCGTG GCCACCCTGG	TGCTCCTGGA	CCACCTCAGC	60
354	CTGGCCCGCA ACCTCCCCGT GGCCACCCCA GACCCCGGCA			120
355	AGCCAGAACC TGCTGGCGGC CGTGAGCAAC ATGCTGCAGA			180

VERIFICATION SUMMARY

DATE: 01/23/2002 TIME: 14:37:03

PATENT APPLICATION: US/09/754,014

Input Set : N:\Crf3\RULE60\09754014.raw Output Set: N:\CRF3\01232002\I754014.raw

L:40 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]

L:41 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]